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*Specializing in hurricanes and open
and coastal ocean research*

" AOMLAOML operates a GOOS (Global Ocean Operating SAOML operates a (collectscollects uppercollects upper ocean data from a wide varietycollects upper oc toto operational forecast centers and performsto operational forecast centers and pe thethe data tothe data to research scientists.the data to research scientists. **Payoffs**

of the climate forecast activities that have been shown to be of great economic benefit both to the nation and the international community.

- " AOML is a principal player in the NOAA/OGP Carbon Cycle Program. AOML is a principal player in the NOAA/OGP Carbon Cycle Program. AOML forecasts forecasts of atmospheric CO₂ levels by measuring the air-sea CO₂ flux. AOML forecasts forecasts of atmospheric CO₂ levels by measuring the air-sea CO₂ flux. AOML anthropogenic (or excess) CO₂. **Payoffs: The oceans sequester carbon released by fossil fuel burning. A quantitative knowledge thereof is imperative for future energy policy, mitigation strategies, and climate research.**
- " During the recent sewage spill in Miami, AOML provided critical offshore current measurements to municipal authorities and Health Dept. to determine the extent of contamination. **Payoffs: Helping to prevent public health problems, minimize unnecessary lost revenue from beach closures, and**

What's next for AOML?

AOML will conduct increasingly interdisciplinary research themes: oceans and climate, regional and coastal waterways, and tropical meteorology. AOML has a firmly established role as leader in research in the Atlantic Ocean, including the Intra-Americas Sea (Caribbean and Gulf of Mexico). AOML is the custodian of major oceanographic data. In addition to continuing work, general new avenues that could be potential future projects include:

- " A model system for assisting coastal infrastructure groups in responding to infrastructure failures
- " Expanded Research in the Intra-Americas Sea
- " Southeastern US regional research covering all three AOML theme areas
- " Expanded use of Remote Sensing Technology - including greater use of the Coastwatch satellite data system

Research Partnerships:

AOML has research partnerships with all components of Miami; many other federal agencies including EPA, Naval Research, and several foreign research organizations (e.g., IFREMER, Research Institute)

Budget and Staff:

AOML is a \$13.9 million laboratory (\$8.3 million in NOAA AOML is a \$13.9 million laboratory (\$8.3 million in NOAA employees, 4 NOAA Corps officers, 10 contract employees and 35 university employees.

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